

Length, Norway, JV (Justervesenet)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					NMI Internal Service Identifier
Class	Instrument or Artifact: Measurand	Instrument Type or Method	Minimum value	Maximum value	Units	Parameter	Specifications	Value	Units	Coverage Factor	Level of Confidence	Is the expanded uncertainty a relative one?	
Laser radiations	Stabilized laser of the mise en pratique: vacuum wavelength	Optical beat frequency	633	633	nm			0.04	fm	2	95%	No	1
Laser radiations	Stabilized laser of the mise en pratique: absolute frequency	Optical beat frequency	474	474	THz			24	kHz	2	95%	No	1
Laser radiations	Other stabilized laser: vacuum wavelength, λ_0	Optical beat frequency	633	633	nm			1E-09 λ_0	nm	2	95%	No	2
Laser radiations	Other stabilized laser: vacuum wavelength, λ_0	Interferometry, fringe count technique	500	550	nm			1E-08 λ_0	nm	2	95%	No	2
End standards	Gauge block: central length L	Interferometry, exact fractions	0.5	100	mm			Q[27, 0.5L], L in mm	nm	2	95%	No	5
End standards	Gauge block: central length L	Mechanical comparison	0.5	100	mm			Q[58, 1.15L], L in mm	nm	2	95%	No	6
Line standards	Precision line scale: line spacing	1-D comparator and CCD microscope	0.005	50	mm	Illumination	transmission	0.5	μm	2	95%	No	11
Line standards	Engineer or surveyor tape, steel: line spacing L	Travelling CCD microscope on stone baseline	0.1	50	m	Support	on flat low friction teflon surface	Q[0.03, 0.0049L], L in m	mm	2	95%	No	12